

- 1 -  
1064486

piece 1, NC\_000913, yccE\_agp-, config: linear, direction: -, begin: 1064837, end: 1064496

sd-  
sd-(15)-ir 10  
sd-ir 1064760

--> } sd-(15)-ir 1064760 Gap 6.0 bits

--| sd-ir 1064760 yccE\_agp- total 5.4 bi

The figure displays a protein sequence alignment across 14 codons. The top row shows the sequence with start sites marked by asterisks (\*). The bottom row shows the corresponding amino acid sequence with predicted codons and start sites. The alignment highlights several ORFs, including phe, arg, glu, gln, val, arg, lvs, met, ala, cys, phe, ser, ile, tyr, ile, phe, lys, asn, arg, gln, gly, and leu. A red box indicates a putative signal peptide, and a green box indicates a putative leader peptide. The alignment is color-coded by codon position.

p35 3.9 bits

10

 p35 5.0 bits

p10 1.6 bi

{----- ... sd-(14)-ir 1064665 Gap

p35-(21)-p10 1064733 Gap 3.3 bits  
p35-p10 1064733 total 5.4 bits

p35-(23)-p10 1064698 Gap 1.4 bits  
p35-p10 1064698 total 5.1 bits

... -thr- gln- thr- met- pro- asp- ... -fMet- his- leu- trp- leu- asn- arg- ile- ser- ala- ala-  
 ... sd sd ir yccE\_agp-  
 ... } sd-(14)-ir 1064665 Gap 4.9 bits  
 ... } sd-ir 1064665 yccE\_agp- total 5.7 bits  
 ... #####> orf 4 codons

5' g t t a c c a a t a c a g a g a c a a t t a c c a a t a a a a a g t g t q a g a c t a a t a a c a a t g g t t t a g c a t a t g c c t t t g c c a t t 3'

- val - thr - asn - thr - glu - thr - ile - phe - thr - asn - lys - lys - val -

- leu - pro - ile - gln - arg - gln - tyr - leu - pro - ile - lys - lys - cys - glu - thr - asn - asn - asn - gly - phe -

- fMet - arg - leu - ile - thr - met - val - phe - ser - ile - cys - leu - cys - his -

<---

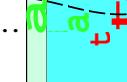
<--- ... NC 000913.vcCE

Diagram illustrating the relationship between two DNA segments:

- Top Segment:** Labeled **p35-p10 1064514 total 5.2 bits**. It consists of a cyan bar.
- Bottom Segment:** Labeled **p35-(23)-p10 1064513 Gap p35-p10 1064513 total 8.1 bits**. It consists of a purple bar followed by a cyan bar.
- A red arrow points from the cyan bar of the top segment to the cyan bar of the bottom segment, indicating a connection or comparison between them.

\*1064510 \* \*1064500  
5' a a a t t q c a t a a c g a t t t a 3'  
- fMet - his - asn - asp - leu -  
- asn - cys - ile - thr - ile -  
..... NC\_000913.yccE  
... ir yccE\_agp-

...  p10 3.7 bits

...  p10 5.7 bits

... } p35-(23)-p10 1064513 Gap 1.4 bits  
... | p35-p10 1064513 total 8.1 bits